

Appendix D

Resource Data Impact Tables

Table 1 Visual Impact Data for Proposed Route

Milepost Begin	Milepost End	Distance	Potential Visual Impacts	Mitigation Measures	Impact Level	Impact Type* (D, I, L, S, B, A)
0	0.2	0.2	Weak visual contrast near Oxbow Switchyard	2-1, 2-2, 2-3, 2-4	L	D, L, A
0.2	0.7	0.5	Foreground views from HC Scenic Byway, moderate visual contrast	2-1, 2-2, 0-2, 0-3, 0-4, 2-4, 2-5	M	D, L, A
0.7	1.1	0.4	Foreground views from HC Scenic Byway, moderate visual contrast	2-1, 2-2, 2-4, 2-5, 0-2, 0-3, 0-4	M	D, L, A
1.1	1.8	0.7	Foreground views from Oxbow-Brownlee Road, moderate visual contrast	2-1, 2-2, 2-4	L	D, L, A
1.8	3.2	1.4	Foreground views from dispersed rec. sites, moderate visual contrast	2-1, 2-2, 2-4, 2-5, 0-2, 0-3, 0-4	M	D, L, A
3.2	3.5	0.3	Middle ground views from dispersed rec. sites, moderate visual contrast	2-1, 2-2, 2-4	L	D, L, A
3.5	4.3	0.8	Foreground views from dispersed rec. sites, moderate visual contrast	2-1, 2-2, 2-4, 2-5, 0-2, 0-3, 0-4	M	D, L, A
4.3	4.5	0.2	Foreground views from Oxbow-Brownlee Road, moderate visual contrast	2-1, 2-2, 2-4	L	D, L, A
4.5	4.9	0.4	Middle ground views from dispersed rec. sites, moderate visual contrast	2-1, 2-2, 2-4	L	D, L, A
4.9	6.0	1.1	Foreground views from dispersed rec. sites, moderate visual contrast	2-1, 2-2, 2-4, 2-5, 0-2, 0-3, 0-4	M	D, L, A
6	7.1	1.1	Foreground views from Oxbow-Brownlee Road, moderate visual contrast	2-1, 2-2	L	D, L, A
7.1	7.3	0.2	Foreground views from Carter's Landing, moderate visual contrast	2-1, 2-2, 0-2, 0-3, 0-4, 2-4, 2-5	M	D, L, A
7.3	7.4	0.1	Foreground views from Oxbow-Brownlee Road, moderate visual contrast	2-1, 2-2, 2-4, 0-2, 0-3, 0-4	L	D, L, A
7.4	8.1	0.7	Foreground views from residences near Carter's Landing, moderate visual contrast	2-1, 2-2, 0-2, 0-3, 0-4, 2-3, 2-4, 2.5	M	D, L, A
8.1	8.9	0.8	Foreground views from Oxbow-Brownlee Road, moderate visual contrast	2-1, 2-2, 0-2, 0-3, 0-4, 2-4	L	D, L, A
8.9	10.0	1.5	Foreground views from residences near Wildhorse Reach, McCormick Park viewers and residences within Brownlee Village. Moderate visual contrast.	2-1, 2-2, 2-3, 2-4, 2-5, 0-2, 0-3, 0-4	M	D, L, A
10.0	11.0	1.0	Weak visual contrast near Brownlee Switchyard	2-2, 2-4	L	D, L, A

*D=Direct; I=Indirect; L=Long-term; S=Short-term; B=Beneficial; A=Adverse
Impact levels: L=Low; M=Moderate

Table 2 Wildlife Impact Data for Proposed Route

Milepost Begin	Milepost End	Distance	Potential Wildlife Impacts	Mitigation Measures	Impact Level	Impact Type* (D, I, L, S, B, A)
0.7	2.0	1.3	Cause an effect on federally threatened bald eagles involving temporary nest site disturbance by construction noise.	0-1, 0-6, 4-1, 4-2, 4-6, 4-8, 4-9, 4-10, 4-11, 4-12, 4-13, 4-15, 4-16	L	D, I, S, A
1.9	2.0	0.2	Disturbance of native habitat for western toads.	0-3, 0-5, 0-6, 0-7, 0-9, 4-1, 4-5, 4-15	L	I, S, A
1.9	2.0	0.1	Disturbance of proposed critical bull trout habitat	0-3, 0-5, 0-6, 0-7, 0-9, 4-1, 4-2, 4-5, 4-15	L	I, S
2.3	3.1	0.8	Temporary disturbance of federally threatened bald eagles using day use “foraging” sites or roosting sites by construction noise.	0-1, 0-6, 4-1, 4-2, 4-6, 4-9, 4-10, 4-12, 4-13, 4-15, 4-16	L	D, S, A
3.6	6.8	3.2	Temporary disturbance of federally threatened bald eagles using day use “foraging” sites or roosting sites by construction noise.	0-1, 0-6, 4-1, 4-2, 4-6, 4-9, 4-10, 4-12, 4-13, 4-15, 4-16	L	D, S, A
4.4	4.5	0.1	Disturbance of proposed critical bull trout habitat	0-3, 0-5, 0-6, 0-7, 0-9, 4-1, 4-2, 4-5, 4-15	L	I, S
6.1	6.2	0.1	Disturbance of proposed critical bull trout habitat	0-3, 0-5, 0-6, 0-7, 0-9, 4-1, 4-2, 4-5, 4-15	L	I, S
7.3	7.4	0.1	Disturbance of proposed critical bull trout habitat	0-3, 0-5, 0-6, 0-7, 0-9, 4-1, 4-2, 4-5, 4-15	L	I, S
7.8	7.9	0.1	Disturbance of proposed critical bull trout habitat	0-3, 0-5, 0-6, 0-7, 0-9, 4-1, 4-2, 4-5, 4-15	L	I, S
6.8	7.9	1.1	Temporary disturbance of Rocky Mountain bighorn sheep lambing sites by construction noise.	0-1, 4-1, 4-6, 4-7, 4-15	L	D, S, A
9.4	9.5	0.1	Disturbance of proposed critical bull trout habitat	0-3, 0-5, 0-6, 0-7, 0-9, 4-1, 4-2, 4-5, 4-15	L	I, S
8.9	10.6	1.7	Temporary disturbance of Rocky Mountain bighorn sheep lambing sites by construction noise.	0-1, 4-1, 4-6, 4-7, 4-15	L	D, S, A
9.9	10.6	0.7	Temporary disturbance of federally threatened bald eagles using day use “foraging” sites or roosting sites by construction noise.	0-1, 0-6, 4-1, 4-2, 4-6, 4-9, 4-10, 4-12, 4-13, 4-15, 4-16	L	D, S, A
10.6	10.9	0.3	Disturbance of proposed critical bull trout habitat	0-3, 0-5, 0-6, 0-7, 0-9, 4-1, 4-2, 4-5, 4-15	L	I, S

*D=Direct; I=Indirect; L=Long-term; S=Short-term; B=Beneficial; A=Adverse
Impact levels: L=Low

Table 3 Soils Impact Data for Proposed Route

Milepost Begin	Milepost End	Distance	Potential Soils Impacts	Mitigation Measures	Impact Level	Impact Type* (D, I, L, S, B, A)
0.0	1.9	1.9	Disturbance category C / High to very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	L	I, S, A
1.9	3.3	1.4	Disturbance category B / High to very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
3.3	4.5	1.2	Disturbance category A / Very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
4.5	4.9	0.4	Disturbance category B / Very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
4.9	6.3	1.4	Disturbance category A / Very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
6.3	6.5	0.2	Disturbance category B / Very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
6.5	7.2	0.7	Disturbance category A / Very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
7.2	7.4	0.2	Disturbance category B / High to very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
7.4	7.5	0.1	Disturbance category A / High erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
7.5	7.9	0.4	Disturbance category B / High to very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
7.9	8.3	0.4	Disturbance category C / High to very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	L	I, S, A
8.3	9.2	0.9	Disturbance category A / Very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
9.2	9.3	0.1	Disturbance category C / Very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	L	I, S, A
9.3	9.7	0.4	Disturbance category C / Moderate erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-3	L	I, S, A
9.7	9.9	0.2	Disturbance category A / Moderate erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-3	M	D, L, A
9.9	10.2	0.3	Disturbance category A / Very high erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
10.2	10.3	0.1	Disturbance category A / Moderate erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-3	M	D, L, A
10.3	10.4	0.1	Disturbance category A / High erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	M	D, L, A
10.4	10.7	0.3	Disturbance category C / High erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-1, 6-3	L	I, S, A
10.7	11.0	0.3	Disturbance category C / Moderate erosion potential	0-1, 0-2, 0-7, 0-8, 0-9, 6-3	L	I, S, A

*D=Direct; I=Indirect; L=Long-term; S=Short-term; B=Beneficial; A=Adverse
Impact levels: L=Low; M=Moderate

Table 4 Botanical Impact Data for Proposed Route

Milepost Begin	Milepost End	Distance	Potential Botanical Impacts	Mitigation Measures	Impact Level	Impact Type* (D, I, L, S, B, A)
1.1	1.2	.1	Transmission line would be near known <i>Bolandra oregana</i> location.	0-5, 0-8, 4-1, 4-3,	NI	
1.7	1.8	.1	Transmission line would be near known <i>Bolandra oregana</i> locations.	0-8, 4-1, 4-3, 4-5	NI	
1.9	2.0	.1	Access road would be located near known <i>Carex hystericina</i> population.	0-5, 0-8, 4-1, 4-3	L	D, L, A
3.7	3.8	.2	Transmission line would cross or be adjacent to known <i>Bolandra oregana</i> locations.	0-7, 4-1, 4-3, 4-5	NI	
3.9	4.0	.1	Transmission line crosses known <i>Carex hystericina</i> population. Access from paved highway for operation and maintenance activities could disturb <i>Carex hystericina</i> .	0-5, 0-8, 4-1, 4-3, 4-5	L	D, I, S, L, A
4.6	4.7	.1	Transmission line would be adjacent to known <i>Bolandra oregana</i> locations.	0-8, 4-1, 4-3, 4-5	NI	
4.7	4.8	.1	Transmission line would be adjacent to known <i>Bolandra oregana</i> population and <i>Carex hystericina</i> populations.	0-8, 4-1, 4-3, 4-5	NI	
5.0	5.1	.1	Transmission line would cross or be adjacent to known <i>Bolandra oregana</i> , <i>Mimulus patulus</i> , and <i>Carex hystericina</i> locations. Access from paved highway for operation and maintenance activities could disturb <i>Mimulus patulus</i> habitat.	0-5, 0-8, 4-1, 4-3, 4-5	L	D, I, S, L, A
5.7	5.8	.1	Transmission line would be near <i>Carex hystericina</i> population.	0-8, 4-1, 4-3, 4-5	NI	
6.9	7.0	.1	Transmission line would be near <i>Carex hystericina</i> population.	0-8, 4-1, 4-3, 4-5	NI	
8.7	8.8	.1	Transmission line would cross and be adjacent to known <i>Bolandra oregana</i> locations.	0-6, 0-8, 4-1, 4-3, 4-5	L	D, I, S, L, A
9.1	9.3	.2	Transmission line would be near known <i>Juncus torreyi</i> locations. Access from paved highway for operation and maintenance activities could disturb <i>Juncus torreyi</i> habitat.	0-6, 0-8, 4-1, 4-3, 4-5	L	I, S, A
9.3	9.4	.1	Transmission line would be adjacent to known <i>Bolandra oregana</i> location.	0-8, 4-1, 4-3, 4-5	L	D, L, A

Milepost Begin	Milepost End	Distance	Potential Botanical Impacts	Mitigation Measures	Impact Level	Impact Type* (D, I, L, S, B, A)
9.7	9.9	.2	Transmission line would cross and be adjacent to known <i>Bolandra oregana</i> , <i>Carex hystericina</i> , and <i>Carex backii</i> locations.	0-8, 4-1, 4-3, 4-5	L	D, I, S, L, A
10.1	10.2	.1	Transmission line would cross known <i>Bolandra oregana</i> location.	0-8, 4-1, 4-3, 4-5	NI	

*D=Direct; I=Indirect; L=Long-term; S=Short-term; B=Beneficial; A=Adverse
Impact levels: L=Low; NI=Non-Identifiable impact

Table 5 Water and Wetlands Impact Data for Proposed Route

Milepost Begin	Milepost End	Distance	Potential Water Impacts	Mitigation Measures	Impact Level	Impact Type* (D, I, L, S, B, A)
0.0	1.6	1.6	none		NI	
1.6	1.7	0.1	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
1.7	1.8	0.1	none		NI	
1.8	2.0	0.2	Increased sedimentation and reduced surface water quality in Cottonwood Creek (intermittent).	0-6, 0-7, 0-8, 0-9, 5-1	M	D, I, S, L, A
2.0	2.2	0.2	none		NI	
2.2	2.3	0.1	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
2.3	2.7	0.4	none		NI	
2.7	2.9	0.2	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
2.9	3.6	0.7	none		NI	
3.6	3.8	0.2	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	M	D, I, S, L, A
3.8	3.9	0.1	none		NI	
3.9	4.0	0.1	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	M	D, I, S, L, A
4.0	4.4	0.4	none		NI	
4.4	4.5	0.1	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	M	D, I, S, L, A
4.5	4.6	0.1	none		NI	
4.6	4.7	0.1	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
4.7	4.8	0.1	none		NI	
4.8	4.9	0.1	Increased sedimentation and reduced surface water quality in an unnamed ephemeral stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
4.9	5.3	0.4	none		NI	
5.3	5.4	0.1	Increased sedimentation and reduced surface water quality in an unnamed ephemeral stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
5.4	5.5	0.1	none		NI	
5.5	5.7	0.2	Increased sedimentation and reduced surface water quality in an unnamed ephemeral stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
5.7	6.0	0.3	none		NI	
6.0	6.1	0.1	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
6.1	6.8	0.7	none		NI	
6.8	7.0	0.2	Increased sedimentation and reduced surface water quality in an unnamed ephemeral stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
7.0	7.3	0.3	none		NI	

Milepost Begin	Milepost End	Distance	Potential Water Impacts	Mitigation Measures	Impact Level	Impact Type* (D, I, L, S, B, A)
7.3	7.4	0.1	Increased sedimentation and reduced surface water quality in Cliff Creek (intermittent).	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
7.4	7.8	0.4	none		NI	
7.8	7.9	0.1	Increased sedimentation and reduced surface water quality in Eagle Island Creek (intermittent).	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
7.9	8.0	0.1	none		NI	
8.0	8.3	0.3	Increased sedimentation and reduced surface water quality in an unnamed ephemeral stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
8.3	8.8	0.5	none		NI	
8.8	8.9	0.1	Increased sedimentation and reduced surface water quality in an unnamed ephemeral stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
8.9	9.0	0.1	none		NI	
9.0	9.1	0.1	Increased sedimentation and reduced surface water quality in an unnamed ephemeral stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
9.1	9.4	0.3	none		NI	
9.4	9.5	0.1	Increased sedimentation and reduced surface water quality in Black Canyon Creek (perennial).	0-6, 0-7, 0-8, 0-9, 5-1	M	D, I, S, L, A
9.5	9.6	0.1	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
9.6	9.7	0.1	none		NI	
9.7	9.8	0.1	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
9.8	10.0	0.2	none		NI	
10.0	10.1	0.1	Increased sedimentation and reduced surface water quality in an unnamed intermittent stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
10.1	10.3	0.2	none		NI	
10.3	10.4	0.1	Increased sedimentation and reduced surface water quality in an unnamed ephemeral stream.	0-6, 0-7, 0-8, 0-9, 5-1	L	D, I, S, L, A
10.4	11.0	0.6	none		NI	

*D=Direct; I=Indirect; L=Long-term; S=Short-term; B=Beneficial; A=Adverse
Impact levels: L=Low; M=Moderate; NI=Non-Identifiable impact

Table 6 Geology Impact Data for Proposed Route

Milepost Begin	Milepost End	Distance	Potential Geology Impacts	Mitigation Measures	Impact Level	Impact Type* (D, I, L, S, B, A)
0	2.3	2.3	Minimal alteration of landscape	6-1, 6-3	L	D, L
2.3	7.9	5.6	Accelerated erosion, some road building.	6-1, 6-3	M	D, L
7.9	8.3	0.4	Minimal alteration of landscape.	6-1, 6-3	L	D, L
8.3	9.2	0.9	Accelerated erosion resulting in potential alteration of contours or displacement of rocks, more road building required. Rock fall potential during construction and tower maintenance.	6-1, 6-3	M	D, L
9.2	9.8	0.6	Minimal alteration of landscape.	6-1, 6-3	L	D, L
9.8	10.4	0.6	Accelerated erosion resulting in potential alteration of contours or displacement of rocks, more road building required.	6-1, 6-3	M	D, L
10.4	11.0	0.6	Minimal alteration of landscape.	6-1, 6-3	L	D, L

*D=Direct; I=Indirect; L=Long-term; S=Short-term; B=Beneficial; A=Adverse
 Impact levels: L=Low; M=Moderate